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INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2004/001765

				PCT/AU2004	/001765				
A.	CLASSIFICATION OF SUBJECT MATT	TER							
Int. Cl. 7:	F03C 1/053; F16H 21/20; F16C 3/28								
According to International Patent Classification (IPC) or to both national classification and IPC									
B.									
	umentation searched (classification system follow	wed by	classification symbols)	•					
See below under "Electronic databases searched"									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPTO, AU: IPC: F16H 21/20; F16C 3/28									
	a base consulted during the international search (
DWPI: IPC	: F01B, F03C, F04B with keywords cr	anksi	naft, piston, vary+ stroke? And	similar terms					
	F16H 21/20; F16C 3/28								
C.	DOCUMENTS CONSIDERED TO BE RELEV	TAAV							
Category	Category* Citation of document, with indication, where appropriate, of the relevant passages								
	DE 3936649A1 (VON INGELHEIM)) 8 1	May 1991						
X	The whole document		1, 15, 16						
Y	The whole document			2, 3					
	Derwent Abstract Accession No. 84-	0104	98/02, Class Q51,		:				
	SU 1002611A (KHARKOV POLY)		2						
Y	Abstract and Figure	act and Figure							
	Derwent Abstract Accession No. 93-								
**	SU 1775007A3 (HYDRAULIC EQU	IP C	ONS TECHN INST) 7 Novemb	per 1992	3				
Y	Y Abstract and Figure								
X F	Further documents are listed in the conti	inuati	ion of Box C X See pa	itent family ann	ex				
Special	correction of cited documents:								
"A" document defining the general state of the art which is not considered to be of particular relevance conflict with the application but cited to understand the principle or theory									
	underlying the invention capplication or patent but published on or after the ational filing date underlying the invention document of particular relevance; the claimed invention cannot be co- cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be co- cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be co- cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be co- cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be co- cannot be considered to involve an invention cannot be co- cannot be considered to involve an invention cannot be co- cannot be considered to involve an invention cannot be co- cannot be considered to involve an invention cannot be co- cannot be considered to involve an invention cannot be co- cannot be considered to involve an invention cannot be co- cannot be considered to involve an invention cannot be co- cannot be considered to involve an invention cannot be co- cannot be considered to involve an invention cannot be co- cannot be considered to involve an invention cannot be co- cannot be considered to involve an invention cannot be co- cannot be considered to involve an invention cannot be considered to invention cannot be considered								
	nt which may throw doubts an priority claim(s)	med invention cannot	be considered to						
another	or which is cited to establish the publication date of involve an inventive step when the document is combined another citation or other special reason (as specified) such documents, such combination being obvious to a pers								
	nt published prior to the international filing date than the priority date claimed								
	ual completion of the international search		Date of mailing of the internation	nal search report					
4 February 2005		1 0 FEB 2005							
	ing address of the ISA/AU		Authorized officer						
	I PATENT OFFICE WODEN ACT 2606, AUSTRALIA	ACANTEA DEDEED A							
E-mail address: pct@ipaustralia.gov.au			ASANKA PERERA						

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INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2004/001765

		1/AU2004/001765
C (Continuati	ion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	Derwent Abstract Accession No. 94-063790/08, Class Q56, Q62, SU 1789750A1 (HYDRAULIC EQUIP CONS TECHN INST) 23 January 199 Abstract and Figure	
^	Absulted and righte	1, 15, 16
x	US 5588339A (DULGER) 31 December 1996 The whole document	1, 15, 16
	Derwent Abstract Accession No. 1999-453525/38, Class Q56, JP 11190326A (TM JAPAN KK) 13 July 1999	
X	Abstract and Figure	1, 15, 16
х	DE 3711729A1 (SMIDRKAL) 27 October 1988 The whole document	1, 15, 16
		,,,,,,
X	EP 0271456B1 (SIAPA S.p.A.) 15 June 1988 The whole document	1, 15, 16
A	GB 2219836A (HENIGES) 20 December 1989 Abstract and figure	1-16
	Derwent Abstract Accession No. 94-365121/45, Class Q55, SU 1825399 A3 (TOMSK POLY) 30 June 1993	
Α	Abstract and Figure	12
		·
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/AU2004/001765

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	Patent Document Cited in Search Report							
DE	3936649							
US	5588339	CN	1119715	DE	4332947	ЛР	7071364	
JР	11190326		•					
DE	3711729							
EP	0271456							
GB	2219836	AU	36008/89	DE	3919341	FR	2633012	
		JP	2042237	SE	8902226	US	4887560	

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX